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NASA Procedural Requirements

COMPLIANCE IS MANDATORY

NPR 8705.2A

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Subject: Human-Rating Requirements for Space Systems

Responsible Office: Office of Safety and Mission Assurance

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CHAPTER 2. Standards

2.1 The Program Manager shall ensure that the system's design complies with NASA-STD-3000 Volume I - II, Man-Systems Integration Standards ([Requirement 34406](#)).).

2.2 The Program Manager shall ensure that the system's design complies with MIL-STD-1472, Department of Defense Design Criteria Standard - Human Engineering ([Requirement 34407](#)).).

2.3 The Program Manager shall ensure that the system's design complies with JSC 26882, NASA Space Flight Health Requirements ([Requirement 34408](#)).).

2.4 The Program Manager shall ensure that the system's design complies with JPG 8080.5, JSC Design and Procedural Standards Manual ([Requirement 34409](#)).).

2.5 The Program Manager shall ensure that the system's software development complies with the requirements in NASA-STD-8719.13, Software Safety Standard ([Requirement 34410](#)).).

2.6 The Program Manager shall ensure that the system's design complies with the requirements in NASA Standard 5001, Structural Design and Test Factors of Safety for Spaceflight Hardware ([Requirement 34411](#)).).

2.7 The Program Manager shall ensure that the system's design complies with the requirements in NASA Standard 5007, General Fracture Control Requirements for Manned Space Flight Systems ([Requirement 34412](#)).).

2.8 The Program Manager shall ensure that the system's design complies with the additional set of applicable design and operational standards specified by the Independent Technical Authority ([Requirement 34413](#)).).

Note: The Independent Technical Authority selects standards (such as but not limited to: fabrication, flight operations, general navigation and control, ground processing, health, human factors, life support, medical, safety and mission assurance, structures, workmanship) that are to be applied to the system's Request for Proposal and subsequent contract. These standards will constitute requirements on the contractor or implementing authority as specified in the contract.

2.9 Any tailoring or exceptions to these standards shall be approved by the Independent Technical Authority ([Requirement 34415](#)).).

2.10 The Independent Technical Authority shall resolve any conflicts between technical standards and/or military specification and determine the appropriate standards for the program ([Requirement 34416](#)).).

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